

Kent Shiffer 4/29-5/1, 2013



Overall SEAC4RS Schedule

Activity Name	Duration	Clark D.	Finish Date			Jun 1	13			Jul	13			Aug	g 13			Sep	pt 13			Oc	-	Nov 13			
	(Days)	Start Date	rinish Date	26	2	9	16	23 3	30	7 1	14 21	1 2	8 4	11	18	25	1	8	15	22	29	6 1	3 2	0 27	7 3	10	17
SEAC4RS MISSION 2013	-		11.77			TI.				E.] -					16					7.1			1		IE		
SEAC4RS MISSION 2013 Pre-Deploy	71.00	6/3/13	8/12/13		-							Ť		-	T	VI.											
Primary Equipment Shipping PMD- Deployment site	4.00	8/2/13	8/5/13		H	W.	4			= 1			-		10	TE.							T				Н
ESPO setup Deployment site	8.00	8/1/13	8/8/13		П				4			= 0	-	1													
Second Shipment PMD-Deployment site (Day before Transit to Deploy site)	1.00	8/12/13	8/12/13				1		1		1	1	1	ø													
ER-2 Upload	10.00	7/29/13	8/7/13		H						+	-	-		H										#		
ER-2 Integration Phase 1: HH2Ov, MMS, PCRS, & WAS Arrive	6.00	7/29/13	8/3/13		F I			=	#			- 2		1	1	1				Ħ			1			-	
ER-2 Integration Phase 2: eMAS, NH2Ov, ALIAS, BBR, & O3 Arrive	4.00	7/31/13	8/3/13		T				1	=				1	T	T				Ħ			Ť		1		
ER-2 Integration Phase 3: AirMSPI, CPL, JLH, MTP, RSP, & SSFR Arrive	2.00	8/2/13	8/3/13		Ti									#	1	-				Ħ			1	1			
ER-2 Engineering Flight Test	1.00	8/5/13	8/5/13		H	Til.		1		III		T	9	7101	1	10.						1					
ER-2 Science TF 1	1.00	8/7/13	8/7/13									T	1	V .									#	7			
ER-2 Science TF 2 ????	1.00	8/7/13	8/7/13			# 1 L						t		V										1 2			
DC-8 Upload	65.00	6/3/13	8/6/13		_			-	-	E	-			1 1900		1											
DC-8 Probe Integration	11.00	6/3/13	6/13/13						+	-	-	+	#	+	+	#				-	-	4	+		1		
SARP - Student Outreach	9.00	6/12/13	6/20/13			_	-		+	+	-	+	#	+	+	+		\rightarrow	-	-	-	4	-		+		
DC-8 : Instruments arriving Palmdale for installation next week - DACOM/DLH/COLAS APR-2 SPEC Probes - PALMS LARGE DIAL SAGA I MMS DASH-SP HR-AMS	3.00	7/1/13	7/3/13					3															6. -				
DC-8 Integration Phase 1: Begin Install of - DACOM/DLH/COLAS APR-2 SPEC Probes (fitting and ping testing on wing)	16.00	7/10/13	7/25/13		H	M			1	-	+				h												
DC-8 Phase 2: Begin Install of: SAGA AVOCET (already installed for SARP) DFGAS MMS DASH-SP HR-AMS	14.00	7/12/13	7/25/13	100	7	99				-	+				ħ	17							7			17	
DC-8 Phase 3: Begin Install of: TD-LIF CIT-CIMS SPEC/MMS Rack WAS (already installed for SARP)	11.00	7/15/13	7/25/13							-	÷																
DC-8 Phase 4: Begin Install of: PTR-MS 4STAR (already installed for SARP) BBR SSFR (already installed for SARP) CAFS GT-CIMS RPI	8.00	7/17/13	7/24/13		14			M		-	_			1		1										0.4	
DC-8 Phase 5: Begin Install of: NOy03 AOP HD-SP2 ISAF	3.00	7/23/13	7/25/13		T						-				10	T.							1		1	44	
Laser Ground Checks	2.00	7/26/13	7/27/13		7 3	E 11	1					-			16	T.	1							= =	1		
DC-8 Engineering Flight test	2.00	8/1/13	8/2/13									1	19		T												
DC-8 Science Flight Test	4.00	8/3/13	8/6/13										4		T										T		
Aircraft pack Day (Palmdale)	2.00	8/5/13	8/6/13		77								-						1						T	1 2 3	
WFF C-130 (possible last minute cargo movement)								1	#		1		1	T	1										#		
Transit to Deployment site? ER-2 (dates tentative)	5.00	8/8/13	8/12/13		H	7								888						H	+			1			
Transit to Deployment site? DC-8 (dates tentative)	5.00	8/8/13	8/12/13	199		711			1		11 7 1		-	888								1		11	1	7.9	
SEAC4RS Deployment	54.00	8/8/13	9/30/13			+ 11			+		_	-	1	-	+	=					1	+	#	+	-	1	T
SEAC4RS Pack up	1.00	9/29/13	9/29/13	19-1	7.7	177	77					U	1	11		1				-	Y		1		1		
Transit to Palmdale ER-2	1.00	10/1/13	10/1/13		T					T		T	1		10					1					SF)()
Transit to Palmdale (DC-8)	1.00	10/1/13	10/1/13			9 91					#	1	1		1					1	-		1	7-	A		7
Shipping PMD	4.00	10/1/13	10/4/13									11			E		Ē				-				-		
				7								T.	1												117		

Ellington SEAC⁴RS + DiscoverAQ

SEAC⁴RS
Aircraft Parking
& Lab Space

Discover AQ – Aircraft Parking

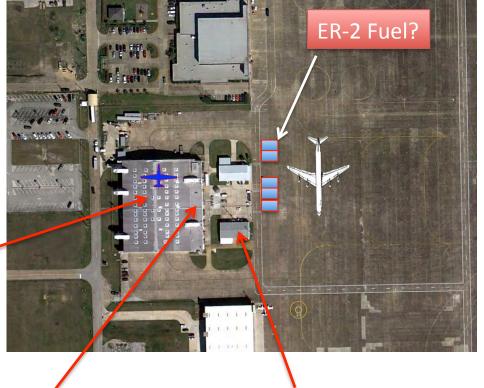
SEAC⁴RS/Discover AQ - Office Space



Ellington Field SEAC⁴RS Facilities







Bldg 994 Lab Space



H990 Rm 110 Lab Space

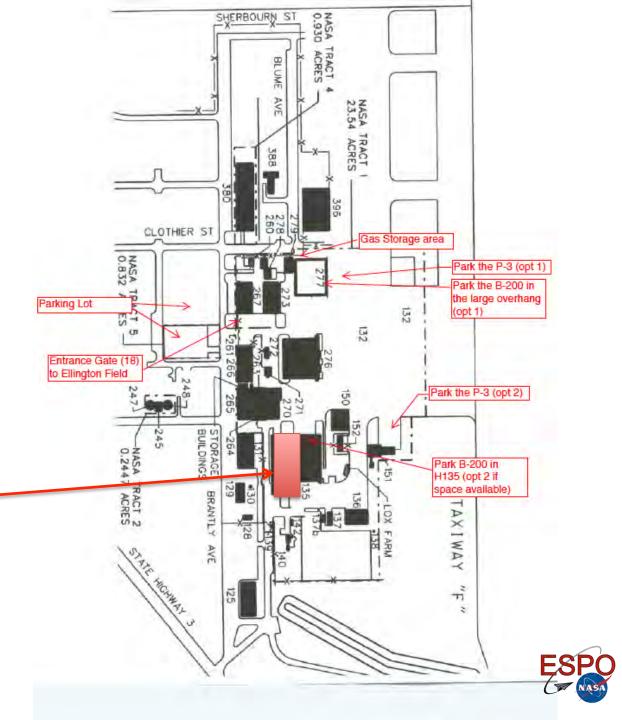




Ellington Facilities

Discover AQ

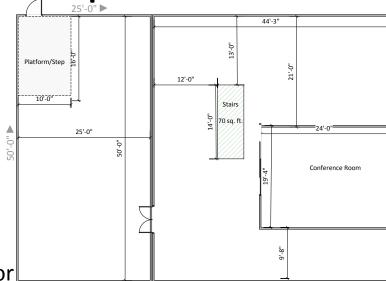
SEAC4RS + Disc AQ –
Shared Offices –
H135



SEAC4RS + D-AQ Shared Office Space



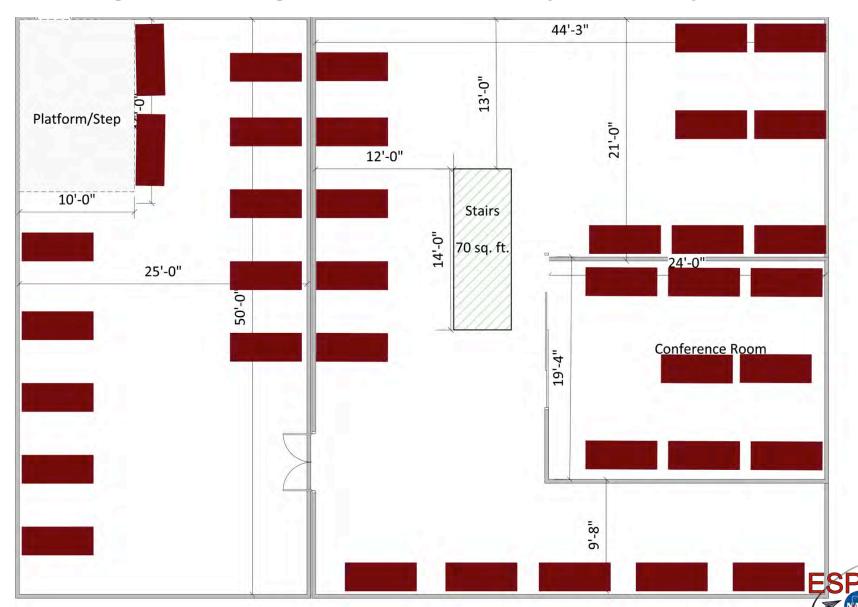
H135 Lab - ground level



H135 Office 2nd floor



Ellington Hangar 135 Office Space - Upstairs



ESPO On-Line Registration

- Each PI (Lead) will receive a request for information, team members, instrument specifics, consumables, etc
- Input team members and they will receive email for personal info, deployment dates
- Info used for access to PMD and Ellington



Aircraft:

- P-3 Orion (See full schedule)
- Flight Number:
- 2013 Operation IceBridge Arctic #1516
- Pavload Configuration:
- 2013 Operation IceBridge Arctic
- Nav Data Collected:
- **Total Flight Time:**
- 6.9 hours
- Submitted by:
- Luci Crittenden on 04/26/13
- Flight Segments:
- From: To: BGTL
- Start: 04/26/13 11:09 Z Finish: 04/26/13 18:02 Z
- Flight Time: 6.9 hours
- Log Number: 13P001 Michael Studinger
- Bruce Tagg NASA SMD Airborne Science Program Funding Source:
- Purpose of Flight: Science
- Comments: Successful data flight flown in support of Operation IceBridge Thule deployment. Data flight plan was a shortened version of the North Glaciers 01. Flight was shortened to accommodate the normal shorter Friday workday observed by Thule flight operations. No squawks on the aircraft. Next flight tentatively scheduled for Saturday, April 27.

Flight Reports

OIB Example

- Flight Hour Summary:
- 13P001
- Flight Hours Approved in SOFRS
- Total Used 202.9
- **Total Remaining** 52.1

OIB - P-3 Orion 04/26/13 Science Report

- Mission:
- OIB
- Mission Summary:
- F26 North Glaciers 01 (shortened)
- Accomplishments
- Low-altitude survey (1,500 ft AGL) over the Greenland Ice Sheet.
- ATM, snow, Ku-band, accumulation, MCoRDS radars, and DMS were operated on the survey lines.
- Ramp pass at Thule Air Base at 3,000 ft AGL for ATM and radar calibration.
- Satellite Tracks: ICESat #0278.
- Repeat Mission: 2002 (parts) and 2011.

Instrument Operated Data Volume Instrument Issues/Comments

ATM 58 GB

DMS yes 121 GB None. Collected 15,794 frames on primary system.

Snow Radar ves 327 GB None.

Ku-band Radar 327 GB None. Accumulation Radar ves 170 GB None.

MCoRDS 853 GB None.

- KT-19 9 MB None.
- Mission Report (Michael Studinger, Mission Scientist)
- A low pressure system centered over the Davis Strait prevented us from flying any of the remaining high priority mission plans today. We had to stay over the northern most part of Greenland to avoid dense cloud cover and decided to fly North Glaciers 01. This mission is designed to resurvey historical ATM longitudinal surveys of several glaciers in northern Greenland, including Steensby, Ryder, and Hagen Glaciers. It also re-occupies ATM lines on the Flade Ice Cap, near Station Nord, and returns to Thule along the British North Greenland Expedition traverse line, which was also flown by ATM in 2002.



DFRC Fatigue Matrix

- Paragraph 2.15.3.3: For Critical Positions, employees shall not work in excess of the following maximum work times:
- 12 consecutive hours (16 consecutive hours in emergency situations with approval by a supervisor capable of evaluating the human factors risk level for the Critical role. Only during a Center or Program Declared Emergency may 16 consecutive hours be exceeded with high level of designated approval);
- 60 hours during a 7 day work week*;
- Seven (7) consecutive days without at least 1 full day off*(deviations may be pre-approved at a high level for up to 18 consecutive days with 2 full days off required after the extension period);
- 240 hours during a 4 week period*; and
- 2500 hours during a rolling 12 month period*.
- NOTE: The asterisks (*) denotes pre-approval is required for deviations by a designated supervisor after consideration of human factors safety issues for the Critical Position.
- The above limitations apply to all civil servants and contractors within the Code O organization at DFRC.
- Deviations from the above criteria must be approved in advance by the Center Director with the concurrence of the Director for Flight Operations.



OTHER POSSIBLE DEPLOYMENT SITES ???

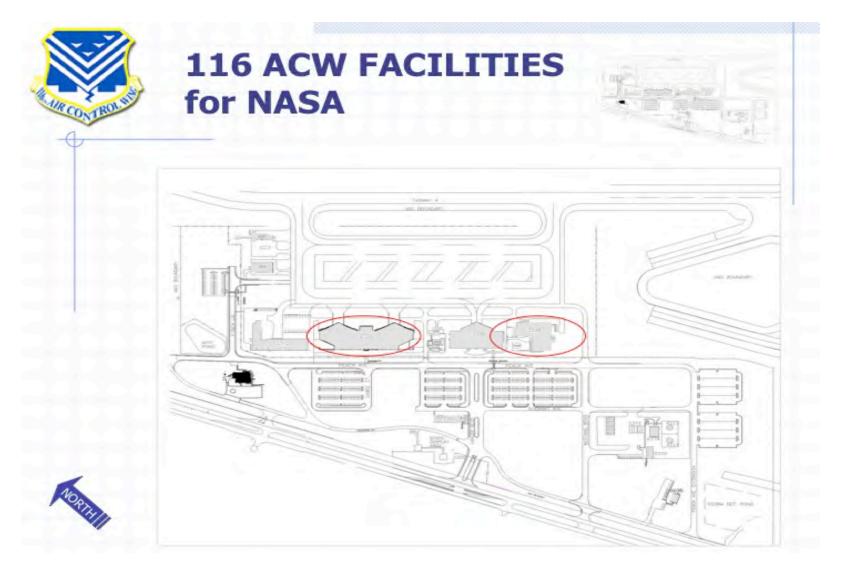


WR Aircraft Ramp





WARNER ROBINS AFB





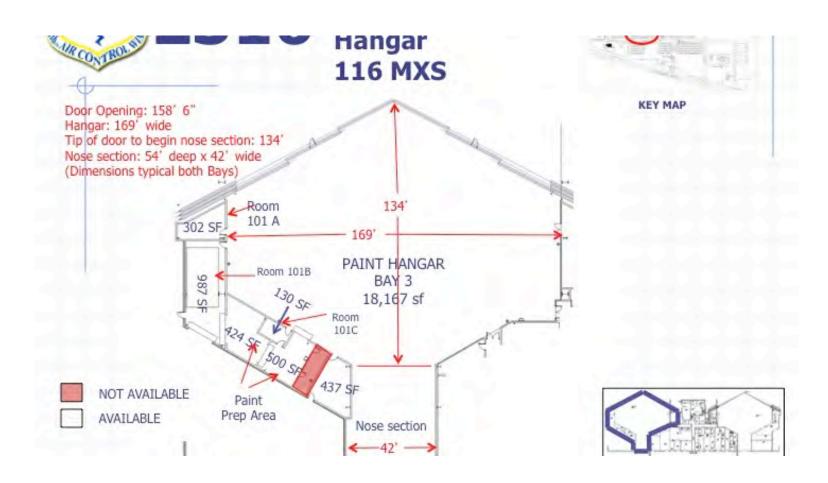






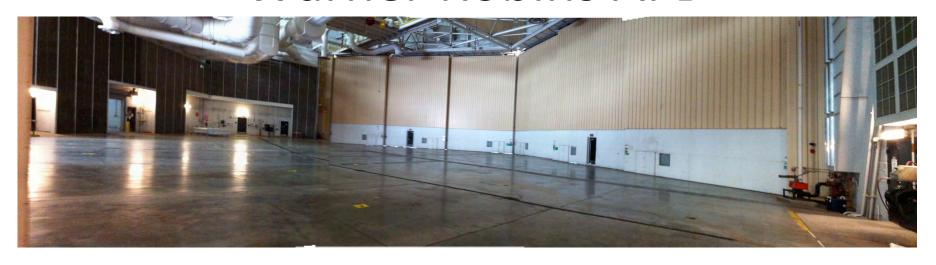


WR Hangar Bay 3





Warner Robins AFB





Warner Robins AFB



